IN THE CLAIMS:

 (Currently Amended) A method for depositing a low dielectric constant film, comprising:

delivering a gas mixture comprising:

a cyclic organosiloxane; and

two or more oxidizing gases comprising N_2O and O_2 to a substrate in a chamber, wherein a ratio of a flow rate of the N_2O to a total flow rate of the two or more oxidizing gases into the chamber is between about 0.1 and about 0.5; and

applying RF power to the gas mixture at conditions sufficient to deposit a low dielectric constant film on a surface of the substrate, wherein the low dielectric constant film has a carbon content between about 5 and about 30 atomic percent.

- 2. (Original) The method of claim 1, wherein the two or more oxidizing gases consist of N_2O and O_2 .
- (Original) The method of claim 1, wherein the cyclic organosiloxane is octamethylcyclotetrasiloxane (OMCTS).
- (Original) The method of claim 1, wherein cyclic organosiloxane is selected from
 the group consisting of 1,3,5-trimethylcyclotrisiloxane, hexamethylcyclotrisiloxane,
 1,3,5,7-tetramethylcyclotetrasiloxane (TMCTS), octamethylcyclotetrasiloxane (OMCTS),
 1,3,5,7,9-pentamethylcyclopentasiloxane, and decamethylcyclopentasiloxane.
- (Original) The method of claim 4, wherein the gas mixture further comprises an inert gas selected from the group consisting of helium, argon, and combinations thereof.
- (Original) The method of claim 1, further comprising post-treating the low dielectric constant film with an electron beam.

7 (Currently Amended) A method for depositing a low dielectric constant film. comprising:

delivering a gas mixture comprising:

a cyclic organosiloxane; and

an oxidizing gas consisting essentially of a N2O and a O2 gas to a substrate in a chamber, wherein the N2O is delivered into the chamber at a flow rate between about 0.71 sccm/cm2 and about 1.42 sccm/cm2 of substrate surface. wherein a ratio of flow rate of N2O to a total flow rate of the N2O and the O2 gas is between about 0.1 and about 0.5; and

applying RF power to the gas mixture at conditions sufficient to deposit a low dielectric constant film on a surface of the substrate, wherein the low dielectric constant film has a carbon content between about 5 and about 30 atomic percent.

R. (Cancelled)

- 9. (Original) The method of claim 7, wherein the gas mixture further comprises a linear hydrocarbon.
- 10 (Original) The method of claim 9, wherein the linear hydrocarbon is ethylene.
- (Original) The method of claim 7, wherein the cyclic organosiloxane is 11. octamethylcyclotetrasiloxane (OMCTS).
- 12. (Original) The method of claim 7, wherein the cyclic organosiloxane is selected from the group consisting of 1,3,5-trimethylcyclotrisiloxane, hexamethylcyclotrisiloxane. 1.3.5.7-tetramethylcyclotetrasiloxane (TMCTS), octamethylcyclotetrasiloxane (OMCTS), 1.3.5.7.9-pentamethylcyclopentasiloxane, and decamethylcyclopentasiloxane.

- 13. (Original) The method of claim 7, wherein the gas mixture further comprises an inert gas selected from the group consisting of helium, argon, and combinations thereof,
- 14. (Original) The method of claim 7, further comprising post-treating the low dielectric constant film with an electron beam.

15-20. (Cancelled)